	Application No.	Applicant(s)	
	10/757,073	YEH ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Tan T. Nguyen	2827	_
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS	
1. X This communication is responsive to the Response submit	ted on November 14, 2005.		
2. X The allowed claim(s) is/are 1-22.			
 3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	·	•	
2. Certified copies of the priority documents have			
3. ☐ Copies of the certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •		
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this	mational stage application from the	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or declara		
5. CORRECTED DRAWINGS (as "replacement sheets") mus			
(a) including changes required by the Notice of Draftspers		948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the AL MATERIAL.	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PTO-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Da 8), 7. ☐ Examiner's Amendr		
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. Examiner's Statement	ent of Reasons for Allowance	
of Biological Material	9.	Gungage	
		Tan T. Nguyen Primary Examiner Art Unit 2827	

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1. The Response to the Office Action submitted on November 14, 2005 has been received.

- 2. The drawing correction submitted on November 14, 2005 has been received.
- The drawings are objected to because in Figure 7C, Figure 7D and Figure 7F, 3. the notation " $V_b = V_s = -10V$ or floating" should be deleted because in these three figures, the voltage V_b either varied or positive. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 4. The following is an examiner's statement of reasons for allowance:

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The closet prior art to the present invention is Sato (U.S. Patent No. 5,576,995). Sato disclosed an erasing method which injecting electrons to the floating gate, and a programming method which releasing electron from the floating gate. Sato failed to show or suggest the steps of evaluating a read current generated in response to the voltage bias to determining whether a level of gate threshold voltage is reached, and repeating the processing sequence a number of times by varying one or more time the voltage bias between the base and the gate until the level of the gate threshold voltage is reached and the memory cell is in an erase state as claimed in claims 1-12. Sato also failed to show or suggest the steps of setting the memory cell to an initial state of a first threshold voltage, applying a voltage bias between a first junction region and a gate to cause electric hole to migrate towards and be retained in the trapping layer, evaluating a read current in response to the voltage bias to determine whether a second gate threshold voltage is reached, wherein the second gate threshold voltage is lower than the first threshold voltage, and repeating the processing sequence a number of times by varying one or more time the voltage bias between the gate and the first junction region until the second gate threshold voltage is reached and the memory is in a program state as in claims 13-22.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan T. Nguyen whose telephone number is (571) 272-1789. The examiner can normally be reached on Monday to Friday from 07:00 AM to 03:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian, can be reached at (571) 272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tan T. Nguyen Primary Examiner Art Unit 2827 November 22, 2005